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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of

Applicant(s) : Gregor OCVIRK et al.  
Serial No. : 10/525,400  
Filed : February 23, 2005  
Title : MICROFLUIDIC SYSTEM WITH HIGH  
ASPECT RATIO  
Docket : WP21289US  
Art Unit : 3753  
Confirm. No. : 7542

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

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*Michele Wilson*

Signature

4-7-06

Date of Signature

INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §§1.56, 1.97 & 1.98

Applicants submit herewith patents, publications, and other information of which they are aware, which they believe may be material, as defined in 37 CFR §1.56(b), to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR §1.56(a). While the information referred to in this Information Disclosure Statement may be material pursuant to 37 CFR §1.56(b), the filing of this Information Disclosure Statement is not intended to, pursuant to 37 CFR §1.97(h), constitute an admission that any patent, publication, or other information referred to is, or is considered to be, material to the patentability of this invention. No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§102 & 103, and Applicant(s) reserves the right, pursuant to 37 CFR §1.131 or otherwise, to establish otherwise. Further, pursuant to 37 CFR §1.97(g), the filing of this Statement should not be construed as a statement that a search has been made or that no other material information exists.

This Information Disclosure Statement is being filed within the period set forth in 37 CFR §1.97(b) because it is believed to be filed before the mailing date of a first office action on the merits.

Serial No. 10/525,4000  
Docket No. WP21289US

The Office has waived the requirement pursuant to 37 CFR §1.98(a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003 and for all international applications that have entered the national stage under 35 USC §371 after June 30, 2003. Therefore, no copies of each cited U.S. patent and each cited U.S. patent application publication are enclosed, but the cited U.S. patents and the cited U.S. patent application publications are listed on PTO/SB/08A.

No additional fees are believed to be necessary, however, should any fees be deemed required, the Commissioner is authorized to charge such fees to Deposit Account 02-2958, but is not to include any payment of issue fees.

Respectfully submitted,  
ROCHE DIAGNOSTICS OPERATIONS, INC.

Date: 3/22/06

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<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/525,400
				Filing Date	February 23, 2005
				First Named Inventor	Gregor OCVRK
				Art Unit	3753
				Examiner Name	TBD
Sheet	1	of	3	Attorney Docket No.	WP21289US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	1	US- 4,233,029	11/11/1980	Columbus	
	2	US- 6,051,866	4/18/2000	Shaw et al.	
	3	US- 6,068,684	5/30/2000	Overton	
	4	US- 6,186,660 B1	2/13/2001	Kofp-Sill et al.	
	5	US- 6,200,737 B1	3/13/2001	Walt et al.	
	6	US- 6,210,968 B1	4/3/2001	Arnold et al.	
	7	US- 6,251,248 B1	6/26/2001	Lin	
	8	US- 6,290,685 B1	9/18/2001	Insley et al.	
	9	US- 6,368,871 B1	4/9/2002	Christel et al.	
	10	US- 6,409,072 B1	6/25/2002	Breuer et al.	
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FOREIGN PATENT DOCUMENTS						
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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	11	EP 0394738 A2	10/31/1990	Siemens AG		<input type="checkbox"/>
	12	WO 99/36941	7/22/1999	Cornel Research Found.		<input type="checkbox"/>
	13	WO 01/17797 A1	3/15/2001	Caliper Tech. Corp.		<input type="checkbox"/>
	14	WO 01/43875 A1	6/21/2001	Zeptosens AG		<input type="checkbox"/>
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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher city and/or country where published	T <sup>6</sup>	
	15	Bebbe, D. et al., "Functional hydrogel structures for autonomous flow control insided microfluidic channels," Nature, Vol. 404, April 2000, p. 588-590	<input type="checkbox"/>	
	16	Bowden, N. et al., "Self-Assembly of Mesoscale Objects into Ordered Two-Dimensional Arrays," Science, Vol. 276, April 11, 1997, p. 233-235	<input type="checkbox"/>	
	17	Breen, T. et al., "Design and Self-Assembly of Open, Regular, 3D Mesostructures," Science, Vol. 284, May 7, 1999, p. 948-951	<input type="checkbox"/>	
	18	Cheng, S. et al., "Integrated Serial Dilution on a Microchip for Immunoassay Sample Treatment and Flow Injection Analysis," Chemistry Department, University of Alberta, Edmonton, Alberta, Canada T6G 2G2, pp. 157-161	<input type="checkbox"/>	
	19	Cifuentes, A. et al., "Rectangular Capillary Electrophoresis: Some Theoretical Considerations," Chromatographia, Bol. 39, No. 7/8, October 1994, p. 391-405	<input type="checkbox"/>	
	20	Dertinger, S. et al., "Generation of Gradients Having Complex Shapes Using Microfluidic Networks," Anal. Chem. 2001, 73, 1240-1246	<input type="checkbox"/>	
	21	Effenhauser, C. et al., "Manipulation of Sample Fractions on a Capillary Electrophoresis Chip," Anal. Chem. 1995, 67, 2284-2287	<input type="checkbox"/>	
	22	Fluri, K. et al., "Integrated Capillary Electrophoresis Devices with an Efficient Postcolumn Reactor in Planar Quartz and Glass Chips," Anal. Chem. 1996, 68, 4285-4290	<input type="checkbox"/>	
	23	Fouckhardt, H. et al., "Micro flow modules with combined fluid flow channel and optical detection waveguide- hyper Rayleigh scattering as a case study," Fresenius J. Anal. Chem. (2001) 371:218-227	<input type="checkbox"/>	
	24	Gavin, P. et al., "Continuous Separations with Microfabricated Electrophoresis - Electrochemical Array Detection," J. Am. Chem. Soc. 1996, 118, 8932-8936	<input type="checkbox"/>	
	25	Giddings, J. "Field-Flow Fractionation: Analysis of Macromolecular, Colloidal, and Particulate Materials," Science, Vol. 260, June 4, 1993, p. 1456-144	<input type="checkbox"/>	
	26	Goldman, D. et al., "Miniaturized spectrometer employing planar waveguides and grating couplers for chemical analysis," Applied Optics, Vol. 29, No. 31, November 1, 1990, p. 4583-4589	<input type="checkbox"/>	
	27	Hadd, A. et al., "Microchip Device for Performing Enzyme Assays," Anal. Chem. 1997, 69, 3407-3412	<input type="checkbox"/>	
	28	Kamholz, A. et al., "Quantitative Analysis of Molecular Interaction in a Microfluidic Channel: The T-Sensor," Anal. Chem., 1999, 71, 5340-5347	<input type="checkbox"/>	
	29	Kutter, J. et al., "Integrated Microchip Device with Electrokinetically Controlled Solvent Mixing for Isocratic and Gradient Elution in Micellar Electrokinetic Chromatography," Anal. Chem. 1997, 69, 5165-5171	<input type="checkbox"/>	
	30	Liang, Z. et al., "Microfabrication of Planar Absorbance and Fluorescence Cell for Integrated Capillary Electrophoresis Devices," Anal. Chem. 1996, 68, 1040-1046	<input type="checkbox"/>	

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	31	Liu, M. et al., "Channel Electrophoresis for Kinetic Assays," A. Chem. 1996, 68, 2471-2476	<input type="checkbox"/>
	32	Liu, R. et al., "Passive Mixing in a Three-Dimensional Serpentine Microchannel," Journal of Microelectromechanical Systems, Vol. 9, No. 2, June 2000, p. 190-197	<input type="checkbox"/>
	33	Ocvirk, G., "Electrokinetic control of fluid flow in native poly(dimethylsiloxane) capillary electrophoresis devices," Electrophoresis 2000, 21, 107-115	<input type="checkbox"/>
	34	Roulet, J. et al., "Microlens systems for fluorescence detection in chemical Microsystems," Opt. Eng. 40(5) 814-821 (May 2001)	<input type="checkbox"/>
	35	Rowe, C. et al., "An Array Immunosensor for Simultaneous Detection of Clinical Analytes," Anal. Chem. 1999, 71, 433-439	<input type="checkbox"/>
	36	Soper, S. et al., "Polymetric Microelectromechanical Systems," Anal. Chem., 643 A-651A (October 2000)	<input type="checkbox"/>
	37	Verpoorte, E. et al., "Three-dimensional micro flow manifolds for miniaturized chemical analysis systems," J. Micromech. Microeng. 4 (1994) 246-256	<input type="checkbox"/>
	38	Yang, J. et al., "Cell Separation on Microfabricated Electrodes Using Dielectrophoretic/Gravitational Filed-Flow Fractionation," Anal. Chem. 1999, 71, 911-918	<input type="checkbox"/>
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